

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year January 1, 1983
to Month/Year January 1, 1984

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, Utah 84114

OPERATOR: Rio Algom Corporation MINE NAME: Lisbon Mine and Mill

ADDRESS: La Sal Route
Moab, Utah 84532

PERMIT NUMBER AND DATE OF PERMIT: ACT/037/001 - November 1, 1979

REPRESENTATIVE: M. D. Lawton, President

SECTION(S): 23,26,27,28 TOWNSHIP(S): T 29S RANGE(S): R 24E SLBM

MINERAL(S) MINED: Uranium

STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: State Lease No. 20985

SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY: Mineral Patent Nos. 43-84-0005,
43-84-0006, 43-84-0011, 43-84-0012

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

<u>Disturbance</u>	<u>Acreage</u>
Pit	_____
Roads	_____
Facilities	_____
Waste Dumps	_____
Other	_____

(b) Tabulation of acreage affected to date (by years).

<u>Date by Year</u>	<u>Acreage (Total)</u>
1975	_____
1976	_____
1977	_____
1978	_____
1979	_____
1980	_____
1981	_____
1982	_____
1983	_____

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

Area Affected (in mining sequence) (If more space is needed, please attach.)	<u>Area</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>etc.</u>
Acreage of Area	_____	_____	_____	_____
Depth of Topsoil Removal (inches)	_____	_____	_____	_____
Depth of Topsoil Replacement (inches)*	_____	_____	_____	_____
Estimate of Topsoil Volume Salvaged (yd ³ or ac ft)	_____	_____	_____	_____
Volume Actually Salvaged (yd ³ or ac ft)	_____	_____	_____	_____
Volume Required for Reclamation (yd ³ or ac ft)	_____	_____	_____	_____
Surplus or Deficit Volume (yd ³ or ac ft)	_____	_____	_____	_____
Storage Status (short- or long-term)	_____	_____	_____	_____

Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area			
	1	2	3	etc.
Storage Location				
Area Where Soil Has Been Used (if not stored)				
Running Total (all stockpiles) (yd ³ or ac ft)				
Short-term				
Long-term				

*Of previously stripped area recently reclaimed.

(d) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
From underground mine to waste pile	1983	30,864 tons - waste rock

(e) Tabulation of quantity of commodity mined.

	<u>Commodity</u>	<u>Tonnage</u>
(Mined)	Uranium - from underground mine	92,187 tons ore
(Milled)	Uranium (own ore, purchased, & toll milling for others)	200,979 tons

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

1. Buildings and support facilities.

2. Roads.

3. Diversion ditches, collector ditches, interceptor ditches, etc.

4. Culverts.

5. Sediment ponds, containment ponds.

6. Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.).

7. Topsoil stockpiles.

(g) Description of any environmental problem areas with a proposed plan for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.

2. Subsidence.

3. Accidental water discharge, dam failure, etc.

4. Slumping, sliding or erosion.

5. Revegetation problem areas.

6. Existence and location of unsuitable (toxic) overburden.

RECLAMATION:

(a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

Area

Acreage

2. Topsoiled areas.

Area

Acreage

3. Seeded areas.

<u>Area</u>	<u>Acreage</u>

4. Reseeded areas (areas previously seeded, then seeded again).

<u>Area</u>	<u>Acreage</u>

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

<u>Year</u>	<u>Acreage</u>
1975	
1976	
1977	
1978	
1979	
1980	
1981	
1982	20*
1983	
1984	

(c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.

2. Type of seed (species) used for seeding during the report period.

*To reclaim borrow area, etc. after completion of tailings embankment in 1981. No details were recorded as work was done by contractor following embankment construction. Copies of work order and purchase order for seed attached.

3. Date of seeding during the report period.

Spring _____

Fall _____

4. Seeding procedures used.

(Hand broadcast or drilled or any other).

5. Rate of seed application.

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)

6. Type and rate of fertilizer applied.

7. Type and rate of mulch applied.

8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).

9. Revegetation test plot information.

(Cover, density, productivity, etc.)

10. Soil analysis results.

(d) Description of results of previous revegetation efforts, including:
(This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.

2. Types (species) of seed that are not growing successfully.

3. Areas experiencing problems with weeds and weed types.

4. Significant erosional problems.

5. Areas of unsuitable overburden on the surface as related to
revegetation failure.

6. Procedures used or proposed to correct these problems.

7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>

8. Results of soil analysis.

(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

	<u>Acres</u>	<u>Cost/Acre</u>
1. Grading		
2. Backfilling		
3. Contouring		
4. Topsoil Replacement		
5. Seeding		
A. Seedbed Preparation		
B. Mulch		
C. Fertilizer		
D. Seed		
6. Other		

BOND INFORMATION:

- A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	<u>Amount</u>	<u>Type</u>	<u>Date Posted</u>
Present Bond			

Deposited in escrow fund to date:
 ACT/037/001 \$418,804
 037/001A \$ 15,844

Increased disturbance, if any:

Increased Bond Amount (attached reclamation estimate).

B. Bond release.

<u>Acres</u>	<u>Bond Amount Released</u>	<u>Date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

RIO ALGOM CORPORATION
UTAH PROJECT

W O R K O R D E R

TO: Urado Construction Inc.,
P.O. Box 217, Bone Creek,
Colorado 81324

Work Order No. C-216.

Date: 25 March 82.

Sched. Finish Date: 2 April 82.

Description of the Work

Estimated Cost

To complete all reclamation work on lower tailings pond embankment south borrow area, including downstream embankment face. Work includes moving original top soil back into place, especially over soil barren areas, and then to seed by harrowing. (Approx. 18 acres).

2. To complete reclamation work on north-east boundary fence line, at top of drainage ditch and outside fence line. Harrow in seed. (Approx. 2 acres). Seed supplied by Rio Algom

Maximum amount authorized by this
Work Order

\$ 4,500.00.

Cost Code: 81LM11 1630-5

Type of Work Order - Firm Price



Cost Plus



Authorization - A) Included in approved estimate

B) (Other)

Originated by

R. J. [Signature]

Accepted by

Carol [Signature]

Contractor

Distribution:

Contractor-1
Plant Supt-1
Accounting-2

M. D. Linton
M. D. Linton

by

[Signature]

PURCHASE ORDER

PURCHASE
ORDER No. **U - 27800****RIO ALGOM CORPORATION**LISBON MINE
LA SAL ROUTE
MOAB, UTAH 84532REQUISITION No. **37644**Date **December 18, 1981****303-242-3122**Mile High Seed Company
P. O. Box 1988
Grand Junction, Colorado 81501Terms **Net 30 days**Sales Tax **4.75%**F.O.B. **Grand Junction, Colorado**Via **Garrett Freightline**Shipment Promised: **12-22-81****TWO COPIES OF INVOICES REQUIRED****CONFIRMATION: Phone - Joe Dowd to John Ericson****Ship to RIO ALGOM CORPORATION - LISBON MINE**
NEAR LASAL, UTAHFor **Tails Pond Cover**

ITEM No.	QUANTITY	STOCK OR ACCT. NUMBER	PART NUMBER & DESCRIPTION	PRICE
			Mixed Grass Seed as listed below:	
1	24 lbs.	1630-5	Beardless Bluegrass	156 ⁰⁰ 6.50 lb.
2	36 lbs.		Crested Wheatgrass	34 ²⁰ .95 lb.
3	12 lbs.		Indian Ricegrass - Nezpar	144 ⁰⁰ 12.00 lb.
4	24 lbs.		Blue Grama	96 ⁰⁰ 4.00 lb.
5	24 lbs.		Four-Wing Saltbrush	96 ⁰⁰ 4.00 lb.
6	24 lbs.		Common Sunflower	300 ⁰⁰ 12.50 lb.
7	36 lbs.		Intermediate Wheatgrass	50 ⁴⁰ 1.40 lb.
8	24 lbs.		Nomad Alfalfa - Creeper	45 ⁶⁰ 1.90 lb.
9	36 lbs.		Yellow Sweet Clover	18 ⁰⁰ .50 lb.
Total 240# - Mixed in Std. 40# packages.				940 ⁰⁰
Notify: Bob P. - Merv L.				347 ²²
				974.72

IMPORTANT

Purchase Order No. must be shown on all documents and packages.
 Three copies Commercial Invoices, one copy of packing list must be mailed at time of shipment
 to us at La Sal Route, Moab, Utah 84532
 Enclose packing list in each shipment.

RIO ALGOM CORPORATIONBy W. H. 1/23M.D. LAWTON
MANAGER

APPENDIX I

ANNUAL REPORT MAPS

1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
2. Map sheets should be of a reasonable size, not to exceed 48 inches on a side.
3. Maps must have a title block with:
 - A. Map title.
 - B. Name and address of permittee.
 - C. Permit and amendment numbers.
 - D. Annual report period.
 - E. Scale, north arrow, contour interval, date of photography, etc.
4. All maps must show:
 - A. Legal subdivisions.
 - B. Permit area boundary clearly shown and labelled.
 - C. Amendment areas clearly shown and labelled.
 - D. Contour features.
5. The following features should all be clearly identified:
 - A. Topsoil stockpiles (numbered and with volumes).
 - B. Settling ponds and sediment control structures.
 - C. Haul roads.
 - D. Pits identified by location, name, number, etc.
 - E. Ramps (numbered).
 - F. Out-of-pit spoil dumps.
 - G. All waste disposal sites including, but not limited to:
 1. Landfill sites.
 2. Carbonaceous waste dumps.
 - H. Diversion ditches.
 - I. Monitoring sites.
6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.

To Pam
RIO ALGOM CORPORATION File #T/037/001

Lisbon Mine

LaSal Route
MOAB, UTAH 84532

Phone: (801) 259-5904

March 12, 1984

JIM
MAR 15 1984

RECEIVED
MAR 15 1984

**DIVISION OF
OIL, GAS & MINING**

State of Utah
Natural Resources
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

Attention: Mr. James W. Smith, Jr.
Coordinator of Mined Land Development

Re: Lisbon Mine Operations - ACT/037/001

Dear Mr. Smith:

Attached please find completed MR Form 3 (Annual Operations and Progress Report) and map.

Rio Algom Corporation operated the Lisbon underground mine and uranium mill during 1983.

No major construction nor any significant land disturbance took place during the year.

Mineral patent was granted to Rio Algom Corporation for claims shaded pink on property map.

If anything further is required, please advise.

Sincerely,



T. R. Sullivan
Chief Engineer

TRS:jem
Enclosures

Cc: R. Pattison
File